

Amendment Dated June 15, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (currently amended) A method of fabricating a light duct, said method comprising the steps of:

[[(14)]] fabricating a light duct of thermoplastic material, the duct [[comprising]] having a light relay [[(26)]] constituted by a rectangular section bar for conveying light along its longitudinal axis [[(A-A')]] referred to as a "first" axis, and provided at one of its ends both with a wall [[(28)]] that is inclined relative to said first axis, and with a lens [[(32)]], the axis of revolution [[(B-B')]] of the lens being contained in a longitudinal plane of symmetry, said duct [[(14)]] presenting a given maximum height H_{\max} beyond the thickness of the lens and a given mean length L_{moy} along its longitudinal axis [[(A-A')]], wherein the duct ~~being characterized in that it~~ is made as a single piece by injection molding, said thermoplastic material in a mold [[(1)]] presenting a cavity of shape identical to that of the duct[[,]] ;

[[the injection taking place]] injecting through a feed orifice disposed on one side of said cavity over a face that is substantially parallel to the plane defined by said axes [[(A-A', B-B')]], wherein said feed orifice [[presenting]] presents a height h lying in the range $0.2 H_{\max}$ and H_{\max} , and a length ℓ lying in the range $0.2 L_{\text{moy}}$ and $0.8 L_{\text{moy}}$ [[,]] ; and

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injecting the thermoplastic material [being injected]] at a rate lying in the range 400 mm³/s to 1500 mm³/s.

2. (currently amended) A method according to claim 1, [[characterized in that]] wherein said height h of said feed orifice is equal to $0.8 H_{\max}$ and said length ℓ of said feed orifice is equal to $0.8 L_{\text{moy}}$.

3. (currently amended) A method according to claim 1 [[or claim 2]], [[characterized in that]] wherein said rate is equal to 725 mm³/s.

4. (currently amended) A method according to [[any preceding]] claim 1, [[characterized in that]] wherein said mold [(1)] is maintained at a temperature regulated in the range 70°C to 90°C.

5. (currently amended) A method according to [[any preceding]] claim 1, [[characterized in that]] wherein said mold [(1)] includes a lateral overflow orifice symmetrical to said feed orifice relative to the plane defined by said axes.

6. (currently amended) A method according to [[any preceding]] claim 1, [[characterized in that]] wherein said mold [(1)] is extended by a first auxiliary mold portion of substantially rectangular section and of outlet corresponding to said feed orifice.

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7. (currently amended) A method according to claims 5 [[and 6]], [[characterized in that]] wherein said mold [(1)] is extended by an overflow second auxiliary mold portion of substantially rectangular section, and of inlet corresponding to said lateral overflow orifice.

8. (currently amended) A method according to [[any preceding]] claim 1, ~~characterized in that it includes a~~ further including compacting and holding step applied to the injected material.

9. (currently amended) A method according to claim 8, [[characterized in that]] wherein said compacting and holding step is performed in stages.

10. (currently amended) A method according to [[any preceding]]claim 1, [[characterized in that]] wherein said thermoplastic material is "Zeonex".

11. (currently amended) A method according to [[any one of]] claim[[s]] 1 [[to 9]], [[characterized in that]] wherein said thermoplastic material is PMMA.

12. (currently amended) A method according to claim 11, [[characterized in that]] wherein the PMMA is injected at a temperature of about 220°C and at a rate of substantially 725 mm³/s, and is then compacted at 58 MPa.

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13. (currently amended) A method according to claim 12, [[characterized in that]]
wherein the PMMA is compacted after injection at 43 MPa for 1 s, then at 46 MPa for 2 s, then
at 50 MPa for 3 s, and finally at 58 MPa for 40 s, and its cooling time in the mold is then 150 s.

14. (currently amended) An electronic display arrangement suitable for mounting on a
frame [[(34)]] of the pair of spectacles type or on a specific system for positioning in front of the
eyes of a user, the arrangement comprising at least one light duct [[(14)]] fabricated using the
method in accordance with [[any preceding]] claim 1.